

IN THE SPECIFICATION

Please amend the paragraph beginning on page 3 at line 10, as follows:

To address these and other needs, various embodiments of the present invention are provided. One embodiment of the invention provides a method for initializing shared memory in a multimode system. ~~The~~ To build an application virtual address space, the method includes building a local address space in each of a plurality of nodes and exporting the local address space from each of the plurality of nodes to a Remote Translation Table (RTT) in each of the plurality of nodes.

Please add the following new paragraph on page 3 after line 15:

The method further includes, once the application virtual address space is built on the RTT of each of the plurality of nodes and if remote translation is enabled, performing a virtual memory reference to a physical memory location using the application virtual address space in the local RTT in each of the plurality of nodes, wherein performing the virtual memory reference includes translating the node number of the virtual memory reference into a node address associated with a remote node associated with the local node through an application and translating bits of the virtual memory reference into a physical page address for the remote node in the application virtual address space;

Please amend the paragraph beginning on page 3 at line 16, as follows:

Another embodiment of the invention provides a method for remotely translating a virtual memory address into a physical memory address in a multi-node system. When remote translation is not enabled, the ~~[[The]]~~ method includes providing the virtual memory address at a source node, determining that the virtual memory address is to be sent to a remote node, sending the virtual memory address to the remote node, and translating the virtual memory address on the remote node into a physical memory address using the local virtual address space in a remote-translation table (RTT) on the remote node. The RTT contains translation information for an entire virtual memory address space associated with the remote node.